

In the ClaimsClaim 1 (previously presented):

An isolated polynucleotide sequence obtained from *Chlamydia trachomatis* comprising a polynucleotide sequence encoding a polypeptide selected from the group consisting of SEQ ID NO. 1083, SEQ ID NO. 1089, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, SEQ ID NO. 1140, SEQ ID NO. 1159, and SEQ ID NO. 1167.

Claim 2 (currently amended):

An isolated polynucleotide sequence that hybridizes to a *Chlamydia trachomatis* polynucleotide sequence encoding a polypeptide selected from the group consisting of SEQ ID NO. 1083, ~~SEQ ID NO. 1089~~, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, ~~SEQ ID NO. 1140~~, SEQ ID NO. 1159, and SEQ ID NO. 1167, under conditions of high stringency.

Claim 3 (currently amended):

An isolated polynucleotide sequence that hybridizes to a *Chlamydia trachomatis* polynucleotide sequence encoding a polypeptide selected from the group consisting of SEQ ID NO. 1083, ~~SEQ ID NO. 1089~~, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, ~~SEQ ID NO. 1140~~, SEQ ID NO. 1159, and SEQ ID NO. 1167 under conditions of intermediate stringency.

Claims 4-7 (canceled)

Claim 8 (previously presented):

A polynucleotide encoding a fusion protein, comprising a polynucleotide according to Claim 1, 2, or 3 ligated in frame to a polynucleotide encoding a heterologous polypeptide.

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Docket No. GEN-T109X
Serial No. 09/201,228Claim 9 (previously presented):

A recombinant vector that contains the polynucleotide of Claims 1, 2, or 3.

Claim 10 (original):

A recombinant vector that contains the polynucleotide of Claim 8.

Claim 11 (previously presented):

A recombinant vector that contains the polynucleotide of Claim 1, 2, or 3, operatively associated with a regulatory sequence that controls gene expression.

Claim 12 (original):

A recombinant vector that contains the polynucleotide of Claim 8 operatively associated with a regulatory sequence that controls gene expression.

Claim 13 (previously presented):

A genetically engineered host cell that contains the polynucleotide of Claim 1, 2, or 3, or a recombinant vector according to Claims 10 or 12.

Claim 14 (previously presented):

A genetically engineered host cell that comprises the polynucleotide of Claim 8, or a recombinant vector according to Claims 10 or 12.

Claim 15 (original):

A genetically engineered host cell that contains the polynucleotide of Claim 1, 2, or 3 operatively associated with a regulatory sequence that controls gene expression in the host cell.

Claim 16 (original):

A genetically engineered host cell that contains the polynucleotide of Claim 8 operatively associated with a regulatory sequence that controls gene expression in the host cell.

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Claims 17-29 (canceled)

Claim 30 (original):

A DNA chip containing an array of polynucleotides comprising at least one of the polynucleotides of Claim 1, 2, or 3.

Claims 31-50 (canceled)

Claim 51 (original):

A kit comprising a container containing an isolated polynucleotide of Claim 1, 2, or 3.

Claim 52 (original):

The kit of Claim 51 wherein the polynucleotide is a primer or a probe.

Claims 53-56 (withdrawn)

Claim 57 (currently amended):

An isolated polynucleotide comprising a polynucleotide that encodes a polypeptide sequence selected from the group consisting of SEQ ID NO. 1083, SEQ ID NO. 1089, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117, ~~SEQ ID NO. 1140~~, SEQ ID NO. 1159, or SEQ ID NO. 1167 wherein the polynucleotide that encodes the polypeptide sequence has the polynucleotide sequence of the genomic DNA obtainable from ECACC Deposit No. 98112618.

Claim 58 (currently amended):

An isolated polynucleotide sequence comprising a polynucleotide sequence that encodes a polypeptide sequence selected from the group consisting of SEQ ID NO. 1083, SEQ ID NO. 1089, SEQ ID NO. 1091, SEQ ID NO. 1095, SEQ ID NO. 1096, SEQ ID NO. 1105, SEQ ID NO. 1117,

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SEQ ID NO. ~~1140~~, SEQ ID NO. 1159, or SEQ ID NO. 1167, wherein the polynucleotide that encodes the polypeptide sequence has the polynucleotide sequence of the clone DNA obtainable from ECACC Deposit No. 98112617.

Claim 59 (currently amended):

An isolated polynucleotide sequence comprising:

- a) nucleotides 78482 to 78736 of SEQ ID NO: 1 (ORF 1083);
- b) the polynucleotide sequence complementary to the full length of nucleotides 112069 through 111734 of SEQ ID NO: 1 (ORF 1089);
- c) ~~the polynucleotide sequence complementary to the full length of~~ nucleotides ~~114017 through 113715 of~~ SEQ ID NO: 1 (ORF 1091);
- d) ~~c)~~ nucleotides 144164 to 144427 of SEQ ID NO: 1 (ORF 1095);
- e) ~~d)~~ the polynucleotide sequence complementary to the full length of nucleotides 150698 through 150369 of SEQ ID NO: 1 (ORF 1096);
- f) ~~e)~~ the polynucleotide sequence complementary to the full length of nucleotides 197313 through 197083 of SEQ ID NO: 1 (ORF 1105);
- g) ~~f)~~ nucleotides 303155 to 303469 of SEQ ID NO: 1 (ORF 1117);
- h) ~~nucleotides 467981 to 468262 of~~ SEQ ID NO: 1 (ORF 1140);
- i) ~~g)~~ nucleotides 610110 to ~~310394~~ 610391 of SEQ ID NO: 1 (ORF 1159); or
- j) ~~h)~~ the polynucleotide sequence complementary to the full length of nucleotides 679528 through 679253 of SEQ ID NO: 1 (ORF 1167).

Claim 60 (previously presented):

A recombinant vector comprising a polynucleotide according to claim 59.

Claim 61 (previously presented):

A genetically engineered host cell comprising a recombinant vector according to claim 60.

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Claim 62 (previously presented):

A DNA chip comprising a polynucleotide according to claim 59.

Claim 63 (previously presented):

A polynucleotide encoding a fusion protein comprising a polynucleotide according to claim 59 ligated in frame to a polynucleotide encoding a heterologous polypeptide.

Claim 64 (previously presented):

A recombinant polynucleotide comprising a polynucleotide according to claim 59 operatively associated with a regulatory sequence that controls gene expression.

Claim 65 (new):

A recombinant polynucleotide comprising a polynucleotide according to claim 63 operatively associated with a regulatory sequence that controls gene expression.